

MATERIAL SAFETY DATA SHEET

Conforms to 93/112/EC and ISO 11014-1

1. Chemical Product and Company Identification

Product Name: Histosol

Product Number: HS-100

Chemical

Names/Description: Light Aromatic Solvent Naphtha

Manufacturer

National Diagnostics 305 Patton
Drive Atlanta, GA 30336

Telephone Numbers

(800) 526-3867 (404) 699-2121

Emergency Numbers

Chemtrec (800) 424-9300 (U.S. &
Canada) 01-703-527-3887 (outside U.S. &
Canada)

2. Composition/Information on Ingredients

Component	% Comp.	CAS #	EINECS #	TLV (Units)
Solvent Naphtha, Light Aromatic	100	64742-95-6	265-199-0	50 ppm

EEC LABEL SYMBOL AND CLASSIFICATION



HARMFUL

R: 10-22 Flammable. Harmful if swallowed. **S: (2-) 23-24-62** Keep out of reach of children. Do not breathe fumes. Avoid contact with the skin. If swallowed, do not induce vomiting. Seek medical advice immediately and show this container or label.

3. Hazards Identification

Appearance and Odor

Clear, colorless liquid with a moderate, aromatic odor

EMERGENCY OVERVIEW - IMMEDIATE HAZARD

POISON! DANGER! UNDILUTED COMPONENTS CAUSE BURNS TO ANY AREA OF CONTACT. MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED. CONTACT WITH OTHER MATERIALS MAY CAUSE FIRE.

EMERGENCY OVERVIEW - CHRONIC HAZARD WARNING

CHRONIC EXPOSURE TO ORGANIC SOLVENTS HAS BEEN ASSOCIATED WITH VARIOUS NEUROTOXIC EFFECTS INCLUDING PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. SYMPTOMS INCLUDE: LOSS OF MEMORY, LOSS OF INTELLECTUAL ABILITY, AND LOSS OF COORDINATION.

Potential Health Effects

Inhalation

SLIGHTLY TOXIC. Breathing of the mists, vapors or fumes may irritate the nose, throat, and lungs. May cause central nervous

system depression or effects. May cause cardiac sensitization, including arrhythmias (irregular heart beats) and death due to cardiac arrest. Chronic exposure to high doses may damage the peripheral nerves, resulting in numbness or tingling in the extremities. See also Reproductive Toxicity and Target Organ Statement for further special toxic effects.

Ingestion

MODERATELY TOXIC. May cause irritation of the mouth, throat, and gastrointestinal tract. Aspiration into lungs may cause chemical pneumonia and lung damage. Aspiration symptoms may be delayed in onset by up to 24 hours. Exposure may also cause central nervous system symptoms similar to those listed under Signs and Symptoms of Overexposure - Inhalation. See also Reproductive Toxicity and Target Organ Statement for further special toxic effects.

Skin

SLIGHTLY IRRITATING. Contact may cause reddening, itching and inflammation. Repeated or prolonged skin contact may cause reddening, itching and inflammation. Defatting agent.

Eyes

SLIGHTLY IRRITATING. Exposure to vapors, fumes or mists may cause irritation. Direct contact may cause irritation, redness, tearing, and blurred vision. Prolonged or repeated exposure may cause irritation and conjunctivitis.

Signs and Symptoms of Overexposure

Inhalation

Symptoms may include sore throat, coughing, labored breathing, sneezing and burning sensation, depending on the concentration and duration of exposure. If CNS depression or effects occur, symptoms include headache, excitation, euphoria, dizziness, incoordination, drowsiness, light-headedness, blurred vision, fatigue, tremors, convulsions, loss of consciousness, coma, respiratory arrest and death, depending on the concentration and duration of exposure.

Ingestion

Ingestion symptoms may include salivation, pain, nausea, vomiting, and diarrhea. Exposure may also cause central nervous system symptoms similar to those listed under Inhalation

Skin

Reddening, itching, and inflammation.

Eyes

Irritation, redness, tearing, and blurred vision.

Carcinogenicity

Benzene, a known carcinogen, may be present in trace amounts, less than 50 ppm. Otherwise, there are no known or anticipated carcinogens present in Naphtha.

Mutagenicity

No information available.

Reproductive Toxicity

This product contains components which may cause adverse reproductive effects. Pregnant women may be at an increased risk from exposure. Consumption of alcoholic beverages may enhance toxic effects.

Teratogenic Effects

This product contains components which may cause adverse developmental effects. Pregnant women may be at an increased risk from exposure. Consumption of alcoholic beverages may enhance toxic effects.

Routes of Entry

Inhalation, ingestion, or skin contact.

Target Organ Statement

Acute or chronic overexposure to this material or its components may cause systemic toxicity, including adverse effects to the following: kidney, liver, spleen, adrenals, thymus and central nervous system. Pre-existing medical conditions which may be aggravated by exposure include disorders of the skin, kidney, liver, cardiovascular and respiratory systems.

4. First Aid Measures

Inhalation

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion

Do not induce vomiting. If swallowed and the person is conscious, immediately give large amounts of water. Get medical attention.

Skin

Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eyes

Immediately flush eyes with plenty of water for at least fifteen minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Flash Point	114 F (44.4 C)	Flammable Limits	ND
Flash Point Method	TCC	Autoignition temperature	865.4 F (463 C)

Extinguishing media

Dry powder, foam, carbon dioxide. (Water may be ineffective.)

Protective Equipment

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Hazardous Combustion Products

Thermal decomposition products may include toxic oxides of nitrogen, sulfur, and carbon.

Unusual Fire and Explosion Hazards

Flammable liquid. Vapor forms explosive mixtures with air. Vapor may travel considerable distances to ignition source and flash back.

NFPA Codes: Health 1 Flammability 2 Reactivity 0

6. Accidental Release Measures

Steps to be taken in case material is released or spilled

Isolate hazard area and deny entry. Keep ignition sources out of area and shut off all ignition sources. Absorb spill with inert material (e.g. dry sand or earth) then place in a chemical waste container.

Waste Disposal Method

Disposal must be made in accordance with applicable federal, state, and local regulations.

Personal Precautions

Wear appropriate protective equipment as specified in section 8.

7. Handling and Storage

Handling

Ground lines and equipment used during transfer to reduce the possibility of static spark-initiated fire or explosion. Use non-sparking tools. Do not eat, drink or smoke in areas of use or storage.

Storage

Keep in a tightly closed container, stored in a cooled, dry, ventilated area away from sources of heat or ignition. Protect from physical damage. Isolate from incompatible materials (section 10).

Storage Temperature

Room Temperature

Disposal

Observe all national, state, and local regulations regarding product disposal. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquids).

8. Exposure Controls/Personal Protection

Airborne Exposure Limits

Component: Solvent Naphtha, Light Aromatic
ACGIH Threshold Limit Value (TLV): 50 ppm

OSHA Permissible Exposure Limit
(PEL):

Engineering Controls

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source.

Respiratory Protection

For conditions of use where exposure to the substance is apparent, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator.

Eye Protection

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Skin Protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Other Control Measures

Use good personal hygiene.

9. Physical Properties

Boiling point	300 F (148.9 C)	Evaporation rate	very slow
Melting point	ND	Solubility in water	negligible
Vapor pressure (mmHg)		pH	neutral
Vapor density (Air = 1)	3.5	Specific gravity (H₂O = 1)	0.87 @ 60 F
% volatile by volume	100		

10. Stability and Reactivity

Stability

Incompatible with oxidizing agents.

Conditions to Avoid

Heat, sources of ignition.

Hazardous Decomposition Products

Combustion may produce oxides of carbon, nitrogen, and sulfur.

Hazardous Polymerization

Will not occur

Incompatibles

Solvent Naphtha, Light Aromatic:

Oxidizing agents.

11. Toxicological Information

Product LD50 Values

Histosol	Oral Rat LD50 (mg/kg):	no data available
Histosol	Dermal Rabbit LD50 (mg/kg):	no data available

Component Cancer List Status

	NTP Carcinogen		IARC Category
	Known	Anticipated	
Solvent Naphtha, Light Aromatic	No	No	3

12. Ecological Information

Solvent Naphtha, Light Aromatic

No information available.

13. Disposal Considerations

Observe all national, state, and local regulations regarding product disposal. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquids).

14. Transport Information

D.O.T.

Proper Shipping Name: Petroleum Products, N.O.S.Hazard Class: 3UN Number: 1268Packing Group: 3

I.A.T.A.

Proper Shipping Name: Petroleum Products, N.O.S.Hazard Class: 3UN Number: 1268Packing Group: 3

I.M.O.

Proper Shipping Name: Petroleum Products, N.O.S.Hazard Class: 3UN Number: 1268Packing Group: 3

15. Regulatory Information

United States

TSCA Regulatory Statement

All intentional ingredients are listed on the TSCA Inventory.

SARA 311/312 Hazard Categories

Component	Fire	Pressure	Reactivity	Acute	Chronic
Solvent Naphtha, Light Aromatic	Yes	No	No	Yes	Yes

Europe

EEC Regulatory

All intentional ingredients are listed on the European EINECS Inventory.

EEC LABEL SYMBOL AND CLASSIFICATION



HARMFUL

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16. Other Information

NFPA Codes: Health 1 Flammability 2 Reactivity 0

MANUFACTURER DISCLAIMER: The information given herein is offered in good faith as accurate, but without guarantee. Conditions of the use and suitability of the product for particular uses are beyond our control. All risks of use of the product are therefore assumed by the user. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.